

# Install and configure a Debian stable base system in a virtual machine

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# Installing

## Create Image for virtual machine

```
kvm-img create -f qcow2 julia.IMG 10G
```

## Install Debian Stable from ISO image

```
kvm -m 1536 -usbdevice tablet -drive  
file=julia.IMG,if=virtio,boot=on,cache=writeback -cdrom  
/path/to/debian-6.0.4-amd64-netinst.iso -net vde,sock=/var/run/kvm0.ctl  
-net nic,macaddr=12:13:14:56:57:58,model=virtio julia.IMG
```

# Configuration

## 1 Network configuration

1 modify /etc/hostname

2 modify /etc/network/interfaces → /etc/init.d/networking restart

## 2 User management

1 modify /etc/passwd + /etc/group

```
-rw-r--r-- 1 1000 1000 3184 Apr 18 06:18 .bashrc
-rw-r--r-- 1 1000 1000  675 Apr 18 06:18 .profile
```

2 chown -R julia:julia julia

```
-rw-r--r-- 1 julia julia 3184 Apr 18 06:18 .bashrc
-rw-r--r-- 1 julia julia  675 Apr 18 06:18 .profile
```

# Starting kvm

## 1) At i12r-tbl

- `kvm -m 1536 -usbdevice tablet -drive file=julia.IMG,if=virtio,boot=on,cache=writeback -net vde,sock=/var/run/kvm0ctl -net nic,macaddr=12:13:14:56:57:58,model=virtio -chardev socket,id=monitor,path=$HOME/debian-stable.monitor,server,nowait -mon chardev=monitor,mode=readline -vnc :13,password julia.IMG &`
- `nc -U $HOME/debian-stable.monitor`
- change vnc password

## 2) At home

- `ssh -l julia -p 8574 -L 5913:127.0.0.1:5913 i12r-tbl.informatik.tu-muenchen.de`
- `xvnc4viewer: 13`

# Desktop environment

- .xsession-errors using Xfce and LXDE, gnome works

```
/etc/gdm/Xsession: Beginning session setup...

(polkit-gnome-authentication-agent-1:6582): GLib-GObject-WARNING **: cannot register existing type '_PolKitError'

(polkit-gnome-authentication-agent-1:6582): GLib-CRITICAL **: g_once_init_leave: assertion `initialization_value != 0' failed
** (pcmanfm:6581): DEBUG: unable to load icon system-software-install

(pcmanfm:6581): Gtk-WARNING **: Radio group does not contain an action with value '0'

ObRender-ERROR **: Your bit depth is currently unhandled

aborting...
```

- resolved: start kvm with "--vga std" or in terminal "startx -- --depth 16"
- *tipp*: remove gdm3 from /etc/X11/default-display-manager → start xsession with "startx"

# My tips and tricks for you

- Public key authentication
- enables ssh authentication without password entering

## Generate key and lock at home

use "ssh-keygen -t rsa"

## Install key in Uni

```
ssh julia@i12r-tbl.informatik.tu-muenchen.de -p 8574 "cat >>  
/home/tbl2012/julia/.ssh/authorized_keys" < /home/julia/.ssh/id_rsa.pub
```